

Title (en)  
SUSPENSION FOR AUTOMOTIVE VEHICLES

Publication  
**EP 0190725 B1 19890111 (EN)**

Application  
**EP 86101433 A 19860204**

Priority  
US 69860785 A 19850206

Abstract (en)  
[origin: EP0190725A2] In a vehicle with a frame (10) and ground engaging wheels (14) suspended therefrom by a suspension (16) having, on each side of the vehicle, a bracket (20) rigidly secured to the frame; a trailing arm (18) pivotably mounted to the bracket (20) and having two sets of openings (84), each set aligned transversely of the trailing arm (18); an air spring (30) connected to and between the frame (10) and the trailing arm (18); and a bushing (85) extending between each set of aligned openings (84) and positioned within the trailing arm (18). An axle (12) is rigidly connected to each trailing arm (18) by an axle bracket (32). Each axle bracket (32) comprises a wrapper (34) rigidly secured to the axle (12); two plates (38, 42) rigidly secured to the wrapper (34), each plate (38, 42) having two apertures (82) aligned with the two sets of openings (84); a shock mounting bracket (46) rigidly secured to one of the plates (38); and four gussets (50, 58, 66, 74) rigidly secured to and between the plates (38, 42) and the wrapper (34) to add rigidity to the axle bracket (32) to aid in withstanding torsional and lateral forces exerted thereon incidental to the operation of the vehicle. One of the gussets (50) is curved to give torsional resilience to the reinforcement. Each axle bracket (32) is secured to each trailing arm by two pins (88), each pin extends through each aligned set of apertures (82) and openings (84) and a bushing (85). A shock absorber (80) is connected to and between each of the shock mounting brackets (46) and the frame (10).

IPC 1-7  
**B60G 7/00**; **B60G 9/00**

IPC 8 full level  
**B60G 9/00** (2006.01)

CPC (source: EP US)  
**B60G 9/003** (2013.01 - EP US); **B60G 2200/31** (2013.01 - EP US); **B60G 2200/445** (2013.01 - EP US); **B60G 2200/462** (2013.01 - EP US); **B60G 2200/464** (2013.01 - EP US); **B60G 2202/152** (2013.01 - EP US); **B60G 2204/148** (2013.01 - EP US); **B60G 2204/1482** (2013.01 - EP US); **B60G 2204/41** (2013.01 - EP US); **B60G 2204/4306** (2013.01 - EP US); **Y10S 180/905** (2013.01 - EP US)

Cited by  
EP0367986A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0190725 A2 19860813**; **EP 0190725 A3 19870819**; **EP 0190725 B1 19890111**; AU 5296586 A 19860814; AU 571168 B2 19880331; CA 1250864 A 19890307; DE 3661702 D1 19890216; MX 162219 A 19910410; US 4615539 A 19861007

DOCDB simple family (application)  
**EP 86101433 A 19860204**; AU 5296586 A 19860131; CA 500187 A 19860123; DE 3661702 T 19860204; MX 145886 A 19860204; US 69860785 A 19850206